

WHAT IS CLAIMED IS:

1. An electronic component mounting apparatus, comprising:
a plurality of component feeding units feeding electronic components and
5 aligned on a base;
a mounting head provided with suction nozzles, the mounting head being
movable between the component feeding units and a printed board positioning
portion, and the suction nozzles picking the electronic components up from the
component feeding units;
10 a recognition camera taking images of component feeding positions of the
component feeding units;
a command device commanding the recognition camera to sequentially take
images of the component feeding positions of the component feeding units;
a display device displaying each of the images taken by the recognition
15 camera with a graphic image of a component pick-up position;
a position matching device for matching the component feeding positions with
the corresponding component pick-up positions by moving the image taken or the
graphic image on the display device for visual alignment;
a storage portion storing shift amounts detected by the position matching
20 device; and
a control device controlling alignments of the component pick-up positions
with respect to the suction nozzles based on the shift amounts stored in the storage
portion.

25 2. The electronic component mounting apparatus of claim 1, wherein the
control device selects the component feeding positions of the component feeding
units which feed the electronic components to be mounted on a printed board placed
on the printed board positioning portion and makes the recognition camera take
images of the selected component feeding positions.

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3. An electronic component mounting apparatus, comprising:

a plurality of component feeding units feeding electronic components, each of the component feeding units being aligned on a corresponding feeder base;

a mounting head provided with suction nozzles, the mounting head being movable between the component feeding units and a printed board positioning portion, and the suction nozzles picking the electronic components up from the component feeding units;

a recognition camera taking images of component feeding positions of the component feeding units;

a command device commanding the recognition camera to take images of the component feeding positions of the component feeding units in one sequence for each of the feeder bases;

a display device displaying each of the images taken by the recognition camera with a graphic image of a component pick-up position;

a position matching device for matching the component feeding positions with the corresponding component pick-up positions by moving the image taken or the graphic image on the display device for visual alignment;

a storage portion storing shift amounts detected by the position matching device; and

a control device controlling alignments of the component pick-up positions with respect to the suction nozzles based on the shift amounts stored in the storage portion.

4. The electronic component mounting apparatus of claim 3, wherein the control device selects the component feeding positions of the component feeding units which feed the electronic components to be mounted on a printed board placed on the printed board positioning portion and makes the recognition camera take images of the selected component feeding positions.

5. An electronic component mounting apparatus, comprising:

a plurality of component feeding units feeding electronic components and aligned on a base;

a mounting head provided with suction nozzles, the mounting head being movable between the component feeding units and a printed board positioning portion, and the suction nozzles picking the electronic components up from the component feeding units;

5 a recognition camera taking images of component feeding positions of the component feeding units;

 a command device commanding the recognition camera to sequentially take images of the component feeding positions of the component feeding units;

 a display device collectively displaying all the images of the component
10 feeding positions taken by the recognition camera with graphic images of component pick-up positions;

 a position matching device for matching the component feeding positions with the corresponding component pick-up positions by moving the image taken or the graphic image on the display device for visual alignment;

15 a storage portion storing shift amounts detected by the position matching device; and

 a control device controlling alignments of the component pick-up positions with respect to the suction nozzles based on the shift amounts stored in the storage portion.

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